

## IN THE SPECIFICATION

On page 1 of the specification, please amend paragraph w as follows:

[002] Multiple channels of optical information may be carried within a single optical signal similar to multiple channels of television being transmitted to a consumer's home through a single cable TV signal. The multiple signals within the optical signal may be broadcast through a technique called dense wavelength division multiplexing which interweaves all the channels into a single photo optic signal. The International Telecommunications Union established a frequency grid spacing of one hundred GigaHertz (i.e. about eight tenths of a nanometer between adjacent channels of optical information). For example, five adjacent optical channels may be optical wavelengths of 1550.12 nanometers (nm), 1549.32 nm, 1548.51 nm, 1547.72 nm, and 1546.92 nm. Thus, bandwidth of each channel is confined to a very narrow band of wavelengths, such as 1549.12 nm to 1549.52 nm (1549.32 nm +/- .2 nm) in order to prevent a first channel overlapping into an adjacent channel and distorting the information in both channels.